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NOTICE OF ALLOWANCE AND FEE(S) DUE

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Technology Center 2100

28395 7590 11/03/2004
BROOKS KUSHMAN P.C./FGTL
1000 TOWN CENTER
22ND FLOOR
SOUTHFIELD, MI 48075-1238

EXAMINER	
JONES, HUGH M	
ART UNIT	PAPER NUMBER
2128	

DATE MAILED: 11/03/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/468,537	12/20/1999	RONALD H. MILLER	199-0516	3755

TITLE OF INVENTION: SYSTEM AND METHOD OF VIRTUAL FLOWBENCH SIMULATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$0	\$1370	02/03/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

**Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

28395 7590 11/03/2004

**BROOKS KUSHMAN P.C./FGTL
1000 TOWN CENTER
22ND FLOOR
SOUTHFIELD, MI 48075-1238**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/468,537	12/20/1999	RONALD H MILLER	199-0516	3755

TITLE OF INVENTION: SYSTEM AND METHOD OF VIRTUAL FLOWBENCH SIMULATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$0	\$1370	02/03/2005
EXAMINER	ART UNIT		CLASS-SUBCLASS		
JONES, HUGH M	2128		703-001000		

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are enclosed:

Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fee(s):

A check in the amount of the fee(s) is enclosed.
 Payment by credit card, Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/468,537	12/20/1999	RONALD H MILLER	199-0516	3755
28395	7590	11/03/2004	EXAMINER	
BROOKS KUSHMAN P.C./FGTL 1000 TOWN CENTER 22ND FLOOR SOUTHFIELD, MI 48075-1238			JONES, HUGH M	
		ART UNIT	PAPER NUMBER	
		2128		
DATE MAILED: 11/03/2004				

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability	Application No.	Applicant(s)
	09/468,537	MILLER ET AL.
	Examiner Hugh Jones	Art Unit 2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 5/9/2003; 11/26/2003; 6/21/2004.
2. The allowed claim(s) is/are 1-24.
3. The drawings filed on 20 December 1999 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 7, 11, 6/21/2004
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

HUGH JONES Ph.D.
PRIMARY PATENT EXAMINER
TECHNOLOGY CENTER 2100
Hugh Jones

DETAILED ACTION

Introduction

1. Claims 1-24 of U.S. Application 09/468,537, filed 12/20/1999 are pending.

Allowable Subject Matter

2. Claims 1-24 are allowed over the prior art of record.
3. The following is an examiner's statement of reasons for allowance: **PowerFlow™** (vol. 4.0, 1998) discloses the use of **PowerFLOW** at **Ford Motor Company**. **Ford Motor Company**, an early user of **PowerFLOW** for external flow aerodynamics and aeroacoustics studies, has expanded its use of **PowerFLOW** to include **internal flow applications**. Ford's Manufacturing and Vehicle Design Laboratory researches analysis tools that may help them produce advanced-engineered autos in a faster time frame. This department is using **PowerFLOW** to simulate internal flows though critical applications such as paint processes, water cooling jackets and engine transmissions. **PowerFLOW** is helping to optimize the design process as it effectively reduces meshing times to a fraction of what they were previously. Applicants admit (page 7, specification) that **POWERFLOW** automatically performs autogridding and simulation. **PowerFlow™** ("Fluid flow for competitive design"; see http://www.com.pdf/Exa_Brochure 98.pdf - 1998, numbered pages 1-11) disclose: transient and steady state analysis (pp. 3-4); user control over timesteps and measurements (pg. 3); fully automatic grid generation (pp. 4, 6); valve simulation (pg. 6); import templates (pg. 7); engine simulation (pp. 7, 11); interfaces with Nastran and Ansys (pg. 8); **PowerFlow™** does not expressly

disclose automatically terminating the simulation once steady state conditions have been reached in the simulation. Saleh et al. disclose terminating a simulation once the transient phase of a simulation has been completed and the steady state phase begun. See fig. 9 (# 90) and corresponding text. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the PowerFlow teaching to incorporate the feature of terminating the simulation once steady state conditions have been reached because 1) it is inherent that the simulation must be terminated at some point, 2) no new information would be gained by continuing the simulation and 3) expensive computational assets would be wasted if the simulation were to be continued. Official notice was taken that it would have been obvious to one of ordinary skill in the art at the time of the invention to terminate the simulation once steady state conditions have been reached because 1) it is inherent that the simulation must be terminated at some point, 2) no new information would be gained by continuing the simulation and 3) expensive computational assets would be wasted if the simulation were to be continued. Applicant's did not challenge the Official Notice and relied upon the Official Notice in their arguments re 112(1).

4. However, The prior art of record while disclosing the templates and their modification, does not disclose the generic template, ***as defined in the specification***, and its modification, ***as defined in the specification***.

5. Therefore, the prior art of record does not anticipate, render obvious or read on the claims and the claims do not read on the prior art.

6. Applicant's arguments filed 5/9/2003, 11/26/2003 and 6/21/2004 have been fully considered and they are persuasive.

7. Full faith and credit is given to applicants that they have fulfilled their duty to disclose.

8. The 112(1) rejections are withdrawn. The specification is enabled to the extent of the express teachings in the specification.

9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

10. Any inquiry concerning this communication or earlier communications from the examiner should be:

directed to:

Dr. Hugh Jones telephone number (703) 305-0023, Monday-Thursday 0830 to 0700 ET, **or** the examiner's supervisor, Jean Homere, telephone number (571) 272-3780.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist, telephone number (703) 305-3900.

mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

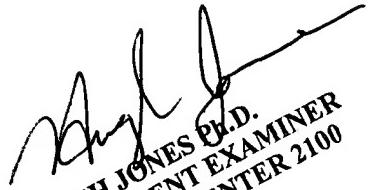
or faxed to:

(703) 308-9051 (for formal communications intended for entry) **or**
(703) 308-1396 (for informal or draft communications, please label "*PROPOSED*"
or "*DRAFT*").

Dr. Hugh Jones

Primary Patent Examiner

October 26, 2004



HUGH JONES Ph.D.
PRIMARY PATENT EXAMINER
TECHNOLOGY CENTER 2100



ORIGINAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit:2123

Ronald H. Miller, et al.

Examiner: Hugh M. Jones

Serial No.: 09/468,537

Filed: December 20, 1999

For: SYSTEM AND METHOD OF VIRTUAL FLOWBENCH
SIMULATION

Attorney Docket No.: FMC 1728 PUS (81051425)

**INFORMATION DISCLOSURE STATEMENT AND FEE
UNDER 37 C.F.R. § 1.97(c) AND § 1.17(p)**

Mail Stop Amendment
Commissioner for Patents
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

RECEIVED

JUN 25 2004

Technology Center 2100

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the reference listed and identified on the attached Form PTO/SB08B is being submitted herewith for consideration by the Examiner. This Statement is being filed in accordance with 37 C.F.R. § 1.97(c), i.e., after the mailing date of a first Office Action on the merits but before the mailing of a final action or a notice of allowance. The associated fee in the amount of \$180.00 as set forth under 37 C.F.R. § 1.17(p) should be charged to Deposit Account 06-1510 (Ford Global Technologies, Inc.) A duplicate of this paper is enclosed for that purpose.

06/24/2004 EAREGAY1 00000055 061510 09468537

02 FC:1806 180.00 DA

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

06/18/04

Date of Deposit

Matthew M Jakubowski

Name of Person Signing

matjcl

Signature

RETIRED AVAILABILITY COPY

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the references are "material" as defined under 37 C.F.R. § 1.56(b).

If the filing date of this application is on or before June 30, 2003, a copy of each reference listed on the attached Form SB08B is included herewith. If this application was filed after June 30, 2003, copies of any cited U.S. patent/application references have not been included. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

RONALD H. MILLER, et al.

By: mat j
MATTHEW M. JAKUBOWSKI
Reg. No. 44,801
Attorney for Applicants

Date: 06/18/04

BROOKS KUSHMAN P.C.
1000 Town Center, 22nd Floor
Southfield, MI 48075-1238
Phone: 248-358-4400
Fax: 248-358-3351

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WIN 2 1 2004



PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031

Examiner Signature		Date Considered	10/23/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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O I P E
MAY 09 2003
PATENT & TRADEMARK OFFICE
ATTORNEY DOCKET NO.
066762.0103

SERIAL NO.
09/468,537

1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ronald H. Miller, et al.
Serial No. 09/468,537
Filing Date: December 20, 1999
Group Art Unit: 2763
Title: SYSTEM AND METHOD OF VIRTUAL FLOWBENCH
SIMULATION

7

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MAY 15 2003

Technology Center 2100

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicant respectfully requests, pursuant to 37 C.F.R. § 1.56, 1.97, and 1.98, that the reference listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. A copy of this reference is enclosed for the convenience of the Examiner. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that this reference qualifies as prior art or that this reference is material to the patentability of the present application.

05/13/2003 ZJUHAR1 00000061 09468537
01 FC:1806 180.00 OP

DAL01:735503.1

PTO-1449	MAY 09 2003	Application No. 09/468,537	Applicant(s) Ronald H. Miller, et al.
Information Disclosure Citation in an Application		066762.0103	Group Art Unit 2763
U.S. PATENT DOCUMENTS			

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.						
B.						
C.						
D.						
E.						
F.						
G.						
H.						
I.						
J.						
K.						
L.						
M.						
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MAY 15 2003

Technology Center 2100

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
T.						

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U.	R. Miller, et al., "A Comparison of Experimental and Analytical Steady State Intake Port Flow Data using Digital Physics", SAE Technical Paper Series 1999-01-1183, International Congress and Exposition, Detroit, Michigan, March 1-4, 1999, two cover pages and pp 1-8.	1999
V.		
W.		
X.		

EXAMINER

DATE CONSIDERED

10/23/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

ATTORNEY DOCKET NO.
066762.0103



SERIAL NO.
09/468,537

1

HILL 12/12/03
HILL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ronald H. Miller, et al. **RECEIVED**
Serial No. 09/468,537 DEC 05 2003
Filing Date: December 20, 1999 Technology Center 2100
Group Art Unit: 2123
Title: SYSTEM AND METHOD OF VIRTUAL FLOWBENCH
SIMULATION

"EXPRESS MAIL"
Express Mailing Label EV 323453838 US
Date of Deposit November 26, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Willie Jiles
Willie Jiles

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants respectfully request, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the reference listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. No representation is made that a search has been made, that the reference is material to the patentability of the present application, or that the reference qualifies as prior art. Copies of articles and foreign patents are being furnished.

12/03/2003 HILL 00000055 09468537
01 FC:1806 180.00 DP

ATTORNEY DOCKET NO.
066762.0103

SERIAL NO.
09/468,537

2

REMARKS

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. § 1.97(c). The stipulated fee of \$180.00 is enclosed herewith. Please charge any fees or credit any overpayment to Deposit Account No. 02-0384 of BAKER BOTTS L.L.P.

Respectfully submitted,
BAKER & BOTTS, L.L.P.
Attorneys for Applicant



Brian W. Oaks
Reg. No. 44,981

Date: November 26, 2003

Correspondence Address:

2001 Ross Avenue, Suite 600
Dallas, Texas 75201-2980
(214) 953-6986

33198

PTO-1449 Information Disclosure Statement in an Application		Application No. 09/468,537 066762.0103	Applicant(s) Ronald H. Miller, et al. Group Art Unit 2123			
U.S. PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A.						
B.						
C.						
D.						

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
E.						RECEIVED
F.						DEC 05 2003
G.						
H.						Technology Center 2100

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
I.	R. Miller, et al., "A Design of Experiment Using Computation Fluid Dynamics for Spool-Type Hydraulic Valves," ASME International, pp. 325-334	2000
J.	R. Miller, et al. "High Performance Computing: Analytical Aerodynamics for Automotive Vehicles," ASME International, pp.289-298	1999
K.	R. Miller, et al., "CFD Simulation of Steady-State Flow Forces on Spool-Type Hydraulic Valves," SAE Technical Paper Series, cover page and pp. 295-307	1999
L.	G. Strumolo and V. Babu, "New directions in computational aerodynamics," Physics World, pp. 45-49	1997
M.	Exa Corporation, "PowerFlow Specifications," 4 pages	1998
N.	Exa Corporation, "PowerFlow Validation – Intake Ports," 3 pages	1999
O.	Exa Corporation, "About PowerFlow," 2 pages	11/26/2003
P.	Exa Corporation, "Frequently Asked Questions," 3 pages	April 1998
Q.	Fluent, "CFD for the Automotive Industry," 3 pages	<i>not date</i>
R.	Fluent, "Accelerate your design process," 6 pages	2003
S.	Fluent, "Flow Modeling for the Automotive Industry," 2 pages	11/26/2003
T.	Fluent, "Computer Simulation of Inlet Port Helps Improve Fuel Economy and Emissions," 3 pages	1999
U.	Fluent, "Simulation Helps Adapt Intake Manifold for Multiple Models, Saving Millions," 3 pages	2002
V.	Fluent, "Intake Valves," 1 page	2003

EXAMINER <i>Daryl Jones</i>	DATE CONSIDERED <i>10/23/04</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

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